Berkeley Lab Overview



What Makes Berkeley Lab a National Laboratory?



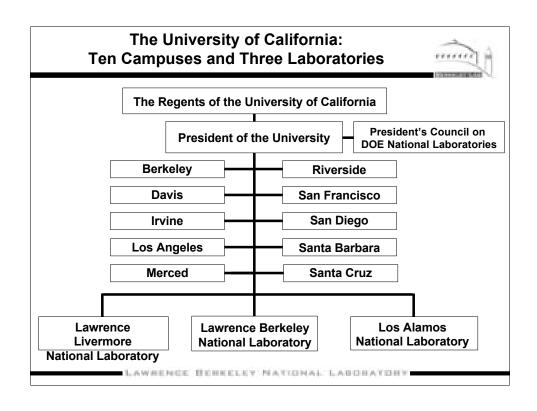
Solves Complex Problems of Scale



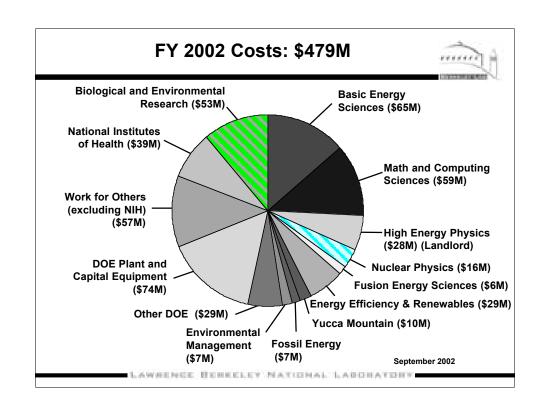
Undertakes Interdisciplinary, Collaborative Research

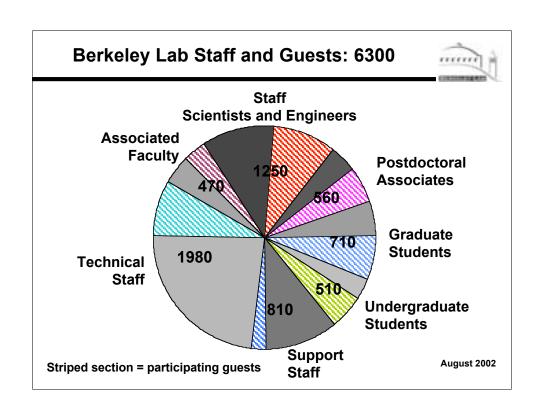


LAWRENCE BERKELEY NATIONAL LABORATORY









Computing

Applied Mathematics

National Energy Research Scientific Computing Center

Tools for Discovery

Computer Science Research Science Grid and Energy Sciences Network

Computational Science Integrated in All Programs

NERSC III at the Oakland Scientific Facility



- 2048 processor/ 4 teraflops: most powerful unclassified computer in the world
- New Machine Room: 20,000 sf, (option to 40,000 sf)
- Facility dedication May 2001



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Biosciences

A Predictive Science: Integrated with the Physical Sciences, Computing, and Engineering

Genomics Cell and Tissue Organization

Quantitative Biology

Structural Computational Biology Biology

Quantitative Imaging

Joint Genome Institute Highlights



Draft sequence of human chromosomes
5, 16, and 19 completed



Syntenic mouse chromosome 19 sequencing under way



 Puffer fish (Fugu) is next target organism: compact genome (300 megabases)



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